

## CE-FS Series 105°C Standard



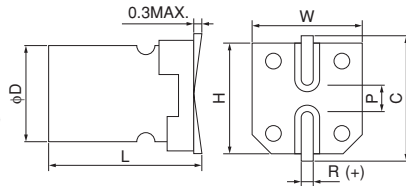
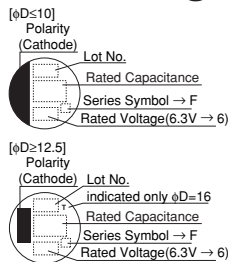
- 105°C, 1000 to 2000hrs.
- Solvent proof (within 2 minutes)

### Specifications

Items	Specifications								
Rated voltage (V)	6.3	10	16	25	35	50	63	100	
Category temperature range (°C)	-55 to +105								-40 to +105
Capacitance tolerance (%)	±20								(120Hz/20°C)
Tangent of loss angle (tanδ) (MAX.) (120Hz/20°C)	φ4 to φ6.3	0.24	0.20	0.16	0.14	0.12	0.10	0.12	0.10
	φ8 to φ16	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10
When rated capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase.									
Leakage current (L.C.) (μA/after 2min.) (MAX.)	The greater value of either 0.01CV or 3								
Impedance (120Hz) ratio at low temperature (MAX.)	Z <sub>-40°C</sub> /Z <sub>20°C</sub>	3	3	2	2	2	2	2	3
	Z <sub>-55°C</sub> /Z <sub>20°C</sub>	8	5	4	3	3	3	3	-
Endurance 105°C rated voltage applied (With the rated ripple current)	Test	φ 4 to φ6.3, φ10 x 7.7 : 1000hrs., φ8 to φ16 : 2000hrs.							
	ΔC/C	Within ± 25% of the initial value							
	tanδ	≤ Twice the initial specified value							
	L.C.	≤ The initial specified value							

### Marking, Dimensions

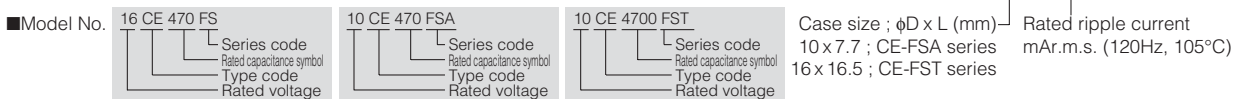
(Unit : mm)



D±0.5MAX.	L	W ±0.2	H ±0.2	C ±0.2	R	P ±0.2
4	5.4 <sup>+0.1</sup>	4.3	4.3	5.0	0.5 to 0.8	1.0
5	5.4 <sup>+0.1</sup>	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	5.4 <sup>+0.1</sup>	6.6	6.6	7.3	0.5 to 0.8	2.2
4	6.0 <sup>±0.3</sup>	4.3	4.3	5.0	0.5 to 0.8	1.0
6.3	6.0 <sup>±0.3</sup>	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7 <sup>±0.3</sup>	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.2 <sup>±0.3</sup>	8.3	8.3	9.0	0.7 to 1.0	3.2
10	7.7 <sup>±0.3</sup>	10.3	10.3	11.0	1.1 to 1.4	4.6
10	10.2 <sup>±0.3</sup>	10.3	10.3	11.0	1.1 to 1.4	4.6
12.5	13.5 <sup>±0.5</sup>	12.8	12.8	13.5	1.1 to 1.4	4.6
16	16.5 <sup>±0.5</sup>	16.3	16.3	17.3	1.8 to 2.1	7.0

### Size List, Rated Ripple Current

μF \ V	6.3	10	16	25	35	50	63	100
0.1 to 0.47						4 x 5.4   10.7 to 3.5	4 x 5.4   10.7 to 3.5	
1.0						4 x 5.4   7	4 x 5.4   7	4 x 6.0   7
2.2						4 x 5.4   11	4 x 5.4   11	6.3 x 6.0   14
3.3						4 x 5.4   13	5 x 5.4   14	6.3 x 6.0   20
4.7				4 x 5.4   13	4 x 5.4   14	5 x 5.4   16	5 x 5.4   16	6.3 x 6.0   25
10			4 x 5.4   18	5 x 5.4   20	5 x 5.4   21	6.3 x 5.4   24	6.3 x 5.4   24	6.3 x 7.7   35
22	4 x 5.4   22	5 x 5.4   25	5 x 5.4   27	6.3 x 5.4   36	6.3 x 5.4   38	6.3 x 6.0   42	6.3 x 7.7   49	8 x 10.2   84
33	5 x 5.4   27	5 x 5.4   30	6.3 x 5.4   40	6.3 x 5.4   44	6.3 x 6.0   42	6.3 x 7.7   60	8 x 10.2   112	10 x 10.2   133
47	5 x 5.4   33	6.3 x 5.4   41	6.3 x 5.4   48	6.3 x 6.0   48	6.3 x 6.0   49	6.3 x 7.7   63	8 x 10.2   119	12.5 x 13.5   240
68							8 x 10.2   126	12.5 x 13.5   245
82						10 x 7.7   140		
100	6.3 x 5.4   50	6.3 x 5.4   53	6.3 x 5.4   60	6.3 x 7.7   91	6.3 x 7.7   84	8 x 10.2   140	10 x 10.2   196	16 x 16.5   490
150		6.3 x 6.0   62	6.3 x 7.7   95	8 x 10.2   140	8 x 10.2   155			16 x 16.5   500
220	6.3 x 6.0   67	6.3 x 7.7   105	6.3 x 7.7   105	8 x 10.2   175	8 x 10.2   190	10 x 10.2   220	12.5 x 13.5   287	
330	6.3 x 7.7   105	8 x 10.2   195	8 x 10.2   195	10 x 7.7   175	10 x 7.7   175			
390			10 x 7.7   195					
470	8 x 10.2   210	8 x 10.2   210	8 x 10.2   230	10 x 10.2   300	12.5 x 13.5   410		16 x 16.5   630	
680	8 x 10.2   210	10 x 7.7   210	10 x 10.2   310		12.5 x 13.5   430			
1000	8 x 10.2   230	10 x 10.2   310		12.5 x 13.5   460	16 x 16.5   700	16 x 16.5   655		
1500	10 x 10.2   310		12.5 x 13.5   500		16 x 16.5   740			
2200		12.5 x 13.5   510		16 x 16.5   805				
3300	12.5 x 13.5   520		16 x 16.5   840					
4700		16 x 16.5   880						
6800	16 x 16.5   930							



Surface Mount Type